

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	916	(429/99).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/26 11:41
S1	130	(340/384.1,384.4).ccls. and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/02 15:15
S2	2	buzz\$2 near2 (porta\$3 adj2 device)	USPAT; EPO; JPO	OR	OFF	2005/10/11 11:06
S3	352	(381/61).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2004/06/02 12:10
S4	416	buzz\$2 near2 (battery)	USPAT; EPO; JPO	OR	OFF	2005/06/10 09:16
S5	413	buzzer near2 (battery)	USPAT; EPO; JPO	OR	OFF	2004/06/02 09:57
S6	4	("D410210"   "D429473"   "D430813"   "6265965").PN.	USPAT	OR	OFF	2003/08/27 16:36
S7	226	(340/388.1).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/08/27 16:31
S8	3	("5296839"   "5719549"   "5867090").PN.	USPAT	OR	OFF	2003/08/27 16:15
S9	2	"5296839".URPN.	USPAT	OR	OFF	2003/08/27 16:16
S10	409	(340/396.1,393.2,393.3,384.5).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2004/11/15 16:12
S11	106	(340/393.2).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/08/27 16:26
S12	2	(portable adj2 device) near2 (sound adj2 genera\$3)	USPAT	OR	OFF	2003/08/28 12:27
S13	2	(portable adj2 device) near2 (sound adj2 genera\$3)	USPAT	OR	OFF	2003/08/27 16:27
S14	2	(portable adj2 device) near2 (sound adj2 genera\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/27 16:27
S15	25	(portable adj2 device) same (sound adj2 genera\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/29 10:50
S16	0	(portable adj2 beep\$2) same (sound adj2 genera\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/27 16:30
S17	52	(portable adj2 telephone) same (sound adj2 genera\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/27 16:31

## EAST Search History

S18	11	(340/388.1).ccls. and (portable)	USPAT; EPO; JPO	OR	OFF	2006/10/24 17:16
S19	8	("3774200"   "3869855"   "5287084"   "5878149"   "5894263"   "6023518"   "6208238"   "6265965").PN.	USPAT	OR	OFF	2003/08/27 16:33
S20	393	(D10/116).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2004/06/02 12:54
S21	3	((("3879726") or ("3760411") or ("3974499"))).PN.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/08/27 16:39
S22	251	(portable adj2 device) same (alarm)	USPAT	OR	OFF	2003/08/29 10:54
S23	16	("3345627"   "3465325"   "3710371"   "3988724"   "4584571"   "4686514"   "4841285"   "5317304"   "5406261"   "5434559"   "5574429"   "5578991"   "5838225"   "5847647"   "5905429"   "5963131").PN.	USPAT	OR	OFF	2003/08/27 16:44
S24	9	buzz\$2 near2 (battery adj2 mount\$2)	USPAT; EPO; JPO	OR	OFF	2004/11/15 12:03
S25	0	"6137415".URPN.	USPAT	OR	OFF	2003/08/28 12:19
S26	0	"6137415".URPN.	USPAT	OR	OFF	2003/08/28 12:19
S27	11	("1290697"   "2554728"   "4517557"   "4616113"   "5107619"   "5154017"   "5184416"   "5477635"   "5642095"   "5706601"   "5892444").PN.	USPAT	OR	OFF	2003/08/28 12:19
S28	18	alarm near2 (battery adj2 mount\$2)	USPAT; EPO; JPO	OR	OFF	2003/08/28 12:20
S29	598	dis\$1 near2 (battery)	USPAT; EPO; JPO	OR	OFF	2003/08/28 12:22
S30	4	("5569558"   "5578395"   "5804335"   "6004695").PN.	USPAT	OR	OFF	2003/08/28 12:21
S31	26	disc adj2 type near2 (battery)	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:47
S32	1	(sound adj2 genera\$3) same (disc near3 battery)	USPAT; EPO; JPO	OR	OFF	2005/06/13 11:41
S33	0	(buzzer) same (disc adj2 type adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:05
S34	1	(alarm) same (disc adj2 type adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/28 12:29

## EAST Search History

S35	61	(381/315).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/08/28 12:37
S36	2	"3932868".URPN.	USPAT	OR	OFF	2003/08/28 12:38
S37	20	"4973941".URPN.	USPAT	OR	OFF	2003/08/28 12:41
S38	34	dis\$1 adj2 type near2 (battery)	USPAT; EPO; JPO	OR	OFF	2003/09/02 16:26
S39	2796	(battery) near3 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:18
S40	1886	(battery) near2 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/28 13:16
S41	1904	(battery) adj3 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/28 13:16
S42	0	(disc near2 battery) near2 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/28 13:18
S43	603	(battery) near3 buzz\$3	USPAT; EPO; JPO	OR	OFF	2003/08/28 13:48
S44	292	(battery adj2 mount\$2) near2 cas\$3	USPAT; EPO; JPO	OR	OFF	2004/11/01 16:46
S45	198	(battery adj2 mount\$2) near2 case	USPAT; EPO; JPO	OR	OFF	2003/08/28 14:02
S46	31	battery near2 (upper adj2 electrode)	USPAT; EPO; JPO	OR	OFF	2003/08/28 14:19
S47	14	"citizen electronics".AS. and battery	USPAT; EPO; JPO	OR	OFF	2006/03/22 15:02
S48	43	(buzzer) same (battery adj2 hous\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/28 14:21
S49	17	"citizen electronics".AS. and buzzer	USPAT; EPO; JPO	OR	OFF	2004/11/01 15:55
S50	2	("4944017"   "5287084").PN.	USPAT	OR	OFF	2003/08/28 14:26
S51	73	(electromagn\$5 adj2 sound adj2 generat\$4)	USPAT; EPO; JPO	OR	OFF	2003/08/28 14:34
S52	8	("5107155"   "5353017"   "5619181"   "5668423"   "5861686"   "5894263"   "5971775"   "5986367").PN.	USPAT	OR	OFF	2003/08/28 14:32
S53	4482	(sound adj2 generato\$2)	USPAT; EPO; JPO	OR	OFF	2003/08/28 14:34
S54	326	(sound adj2 generato\$2) same battery	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:26
S55	25	(sound adj2 generat\$2) same (portable adj2 device)	USPAT; EPO; JPO	OR	OFF	2003/08/28 14:54

## EAST Search History

S56	20	("D201593"   "D258577"   "D272993"   "D285667"   "D339544"   "D350705"   "D371312"   "D375275"   "D389765"   "D405022"   "D410210"   "D410211"   "D411127"   "D415975"   "3742493"   "3866203"   "4115770"   "4330878"   "4366472"   "6061459").PN.	USPAT	OR	OFF	2003/08/28 14:45
S57	15	"4115770".URPN.	USPAT	OR	OFF	2003/08/28 14:48
S58	2	"4654637".URPN.	USPAT	OR	OFF	2003/08/28 14:49
S59	3	"5721785".URPN.	USPAT	OR	OFF	2003/08/28 14:58
S60	106	(battery adj2 attached) near3 (cas\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:24
S61	29	(battery adj2 attached) near3 (external\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:25
S62	3804	(portable adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:26
S63	0	(battery adj2 mount\$2) near3 (on adj2 cas\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:28
S64	4	(battery adj2 mount\$2) near3 (outside adj2 cas\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:08
S65	14	(battery adj2 mount\$2) same (outside adj2 cas\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:34
S66	258	(battery adj2 mount\$2) same (outside)	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:34
S67	5	("5055968"   "5337063"   "5558679"   "5906661"   "6325294").PN.	USPAT	OR	OFF	2003/08/28 15:34
S68	7	("5180644"   "5317247"   "5631101"   "5656876"   "5805069"   "5903132"   "5920178").PN.	USPAT	OR	OFF	2003/08/28 15:36
S69	7	("5180644"   "5317247"   "5631101"   "5656876"   "5805069"   "5903132"   "5920178").PN.	USPAT	OR	OFF	2003/08/28 15:37
S70	6	"5227267".URPN.	USPAT	OR	OFF	2003/08/28 15:44
S71	404	(429/128,123,146).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/08/29 08:34
S72	9	weldl\$3 adj2 battery	USPAT; EPO; JPO	OR	OFF	2003/08/28 15:51

## EAST Search History

S73	7	("5248570"   "5293109"   "5294496"   "5578391"   "5733673"   "5868794"   "6141223").PN.	USPAT	OR	OFF	2003/08/29 08:01
S74	5	("3891462"   "5536596"   "5601941"   "5998061"   "6130602").PN.	USPAT	OR	OFF	2003/08/29 08:06
S75	5	("3891462"   "5536596"   "5601941"   "5998061"   "6130602").PN.	USPAT	OR	OFF	2003/08/29 08:08
S76	4	("3537909"   "4784926"   "4842966"   "5552240").PN.	USPAT	OR	OFF	2003/08/29 08:18
S77	11	"5445900".URPN.	USPAT	OR	OFF	2003/08/29 08:29
S78	0	(429/128,123,146).ccls. and (electrode near3 resili\$3 near2 plate)	USPAT	OR	OFF	2003/08/29 08:35
S79	0	(429/128,123,146).ccls. and (electrode near3 resili\$3 near2 plate)	USPAT; EPO; JPO	OR	OFF	2003/08/29 08:35
S80	1	(battery near2 electrode) near3 (resili\$3 near2 plate)	USPAT; EPO; JPO	OR	OFF	2003/08/29 08:36
S81	5	("4652505"   "5075184"   "5240468"   "5336275"   "6153335").PN.	USPAT	OR	OFF	2003/08/29 08:36
S82	30	(electrode) near2 (resili\$3 near2 plate)	USPAT; EPO; JPO	OR	OFF	2003/08/29 08:38
S83	0	"4314009".URPN.	USPAT	OR	OFF	2003/08/29 08:38
S84	0	"4314009".URPN.	USPAT	OR	OFF	2003/08/29 08:38
S85	1004	(electrode) near2 (metal adj2 plate)	USPAT; EPO; JPO	OR	OFF	2003/08/29 08:39
S86	58	((electrode) near2 (metal adj2 plate)) same battery	USPAT; EPO; JPO	OR	OFF	2003/08/29 08:53
S87	1	("5719549").PN.	USPAT; USOCR	OR	OFF	2003/08/29 08:53
S88	3	"5719549".URPN.	USPAT	OR	OFF	2003/08/29 08:53
S89	3	("5296839"   "5719549"   "5867090").PN.	USPAT	OR	OFF	2003/08/29 08:54
S90	2	"5296839".URPN.	USPAT	OR	OFF	2003/08/29 08:54
S91	1	"5867090".URPN.	USPAT	OR	OFF	2003/08/29 08:57
S92	4	("4175262"   "4284857"   "4810997"   "4823110").PN.	USPAT	OR	OFF	2003/08/29 08:57
S93	8	"4175262".URPN.	USPAT	OR	OFF	2003/08/29 09:00
S94	38	(alarm) near4 (mobile adj2 phone)	USPAT; EPO; JPO	OR	OFF	2003/08/29 10:16

## EAST Search History

S95	13	mobile adj2 phone adj2 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:08
S96	1	wireless adj2 phone adj2 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:08
S97	16	cellu\$3 adj2 phone adj2 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 10:49
S98	19	(mobile adj2 phone) near2 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:15
S99	8	"5635897".URPN.	USPAT	OR	OFF	2003/08/29 09:10
S10 0	8	"5635897".URPN.	USPAT	OR	OFF	2003/08/29 09:14
S10 1	81	(mobile adj2 phone) same alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 10:04
S10 2	5	("5668423"   "5787168"   "5956622"   "6304170"   "6355374").PN.	USPAT	OR	OFF	2003/08/29 09:15
S10 3	14	("5107540"   "5172092"   "5327120"   "5469133"   "5488351"   "5554971"   "5602432"   "5604816"   "5619181"   "5642413"   "5651052"   "5682132"   "5764751"   "5861686").PN.	USPAT	OR	OFF	2003/08/29 09:17
S10 4	10	(mobile adj2 phone) same buzz\$2	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:23
S10 5	4	(mobile adj2 phone) same (sound adj2 generat\$2)	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:31
S10 6	3	(secondary adj2 battery) same (sound adj2 generat\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:33
S10 7	29	(secondary adj2 battery) same buzz\$2	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:33
S10 8	103	(secondary adj2 battery) same alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 09:36
S10 9	4	("4421953"   "5402104"   "5422931"   "5488359").PN.	USPAT	OR	OFF	2003/08/29 10:03
S11 0	8	"5635897".URPN.	USPAT	OR	OFF	2003/08/29 10:03
S11 1	177	(mobile adj2 phone) same sound	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:36
S11 2	5	("5668423"   "5787168"   "5956622"   "6304170"   "6355374").PN.	USPAT	OR	OFF	2003/08/29 10:06

## EAST Search History

S11 3	11	("4184008"   "4782432"   "5210525"   "5369796"   "5526526"   "5625688"   "5665485"   "5681110"   "5704803"   "5707757"   "6108962").PN.	USPAT	OR	OFF	2003/08/29 10:06
S11 4	7	(alarm) near4 (porta\$3 adj2 phone)	USPAT; EPO; JPO	OR	OFF	2003/08/29 10:17
S11 5	25	(buzz\$2) near3 (phone)	USPAT; EPO; JPO	OR	OFF	2003/08/29 10:23
S11 6	4	("4413253"   "4728933"   "5953408"   "6075998").PN.	USPAT	OR	OFF	2003/08/29 10:18
S11 7	9	"4413253".URPN.	USPAT	OR	OFF	2003/08/29 10:20
S11 8	4	("4413253"   "4728933"   "5953408"   "6075998").PN.	USPAT	OR	OFF	2003/08/29 10:22
S11 9	1	("4251807").PN.	USPAT; USOCR	OR	OFF	2003/08/29 10:25
S12 0	7	"4251807".URPN.	USPAT	OR	OFF	2003/08/29 10:23
S12 1	217	(340/384.73,393.2).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2004/06/02 11:19
S12 2	7	"4251807".URPN.	USPAT	OR	OFF	2003/08/29 10:34
S12 3	3	("3846792"   "4159472"   "4183017").PN.	USPAT	OR	OFF	2003/08/29 10:34
S12 4	39	(portable adj2 device) same (buzz\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/29 10:52
S12 5	24	("3798806"   "3928928"   "4102067"   "4288767"   "4434567"   "4611262"   "4618823"   "4703573"   "4861505"   "4910634"   "5063698"   "5254879"   "5275285"   "5311168"   "5552774"   "5576678"   "5639093"   "5761836"   "5778574"   "5864288"   "6104306"   "6118986"   "6212052"   "6314183").PN.	USPAT	OR	OFF	2003/08/29 11:22
S12 6	8	("3656102"   "3815088"   "4761631"   "4933664"   "5153558"   "5473200"   "5563576"   "5638270").PN.	USPAT	OR	OFF	2003/08/29 11:25

## EAST Search History

S12 7	8	("3656102"   "3815088"   "4761631"   "4933664"   "5153558"   "5473200"   "5563576"   "5638270").PN.	USPAT	OR	OFF	2003/08/29 11:25
S12 8	4	"5774044".URPN.	USPAT	OR	OFF	2003/08/29 11:25
S12 9	8	(alarm) near4 (integra\$3 adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:41
S13 0	2	("6044257"   "6239700").PN.	USPAT	OR	OFF	2003/08/29 11:27
S13 1	0	(buzz\$3) near4 (integra\$3 adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:29
S13 2	1	(sound adj2 generat\$3) near4 (integra\$3 adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:39
S13 3	4	"5264656".URPN.	USPAT	OR	OFF	2003/08/29 11:37
S13 4	1	(sound adj2 generat\$2) near4 (integra\$3 adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:40
S13 5	8	(transduc\$2) near4 (integra\$3 adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:51
S13 6	0	(beeper adj alarm) near4 (integra\$3 adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:41
S13 7	0	(beeper adj2 alarm) near4 (integra\$3 adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:41
S13 8	0	(beeper adj2 alarm) same (integra\$3 adj2 battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:42
S13 9	13	(beeper adj2 alarm) same (battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:42
S14 0	112	(beeper) near5 (battery)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:49
S14 1	6	"5764131".URPN.	USPAT	OR	OFF	2003/08/29 11:44
S14 2	21	(beeper) near5 (adapt\$2)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:47
S14 3	6	(beeper) adj2 (adapt\$2)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:47
S14 4	25	(beeper) near4 (sound adj2 generat\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:50
S14 5	1586	integra\$3 adj2 battery	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:22
S14 6	2	(integra\$3 adj2 battery) same (sound adj2 generat\$2)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:52
S14 7	25	(integra\$3 adj2 battery) same (alarm)	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:53



## EAST Search History

S14 8	295	(self adj2 contain\$2) near3 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 11:56
S14 9	271	(page\$1) near2 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:08
S15 0	2	(battery adj2 mount\$2) near3 (sound adj2 generat\$3)	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:10
S15 1	31	(battery adj2 mount\$2) near3 (alarm)	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:14
S15 2	4	"4440504".URPN.	USPAT	OR	OFF	2003/08/29 12:13
S15 3	162	piezoelectric adj2 alarm	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:22
S15 4	5	"4459037".URPN.	USPAT	OR	OFF	2003/08/29 12:20
S15 5	9	piezoelectric near3 phone	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:38
S15 6	4	"5761324".URPN.	USPAT	OR	OFF	2003/08/29 12:24
S15 7	1257	(381/190,392).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/08/29 12:29
S15 8	223	piezoelectric near3 battery	USPAT; EPO; JPO	OR	OFF	2004/06/04 10:50
S15 9	3	piezoelectric near3 (mobile adj2 phone)	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:52
S16 0	12	piezoelectric same (mobile adj2 phone)	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:42
S16 1	0	piezoelectric same (wirel\$3 adj2 phone)	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:42
S16 2	65	piezoelectric same (phone)	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:42
S16 3	44	piezoelectric same pager	USPAT; EPO; JPO	OR	OFF	2003/08/29 12:52
S16 4	16	"5229744".URPN.	USPAT	OR	OFF	2003/08/29 12:57

## EAST Search History

S16 5	41	("2045404"   "2877362"   "4233680"   "4395665"   "4604606"   "4680492"   "4710655"   "4731603"   "4761582"   "4786889"   "4823110"   "4851836"   "4918438"   "4931765"   "4973941"   "5023504"   "5107540"   "5172092"   "5229744"   "5245245"   "5293161"   "5327120"   "5379032"   "5406161"   "5436622"   "5488351"   "5517574"   "5524061"   "5528697"   "5546069"   "5602432"   "5619181"   "5638456"   "5642413"   "5649020"   "5682132"   "5696497"   "5708726"   "5754096"   "5780958"   "5796854").PN.	USPAT	OR	OFF	2003/08/29 13:00
S16 6	1	("5719549").PN.	USPAT; USOCR	OR	OFF	2003/09/02 15:14
S16 7	1	("5229744").PN.	USPAT; USOCR	OR	OFF	2003/09/02 15:25
S16 8	16	"5229744".URPN.	USPAT	OR	OFF	2003/09/02 15:14
S16 9	4	("4352961"   "4685767"   "4969197"   "5053671").PN.	USPAT	OR	OFF	2003/09/02 15:24
S17 0	1	("5764131").PN.	USPAT; USOCR	OR	OFF	2003/09/02 15:25
S17 1	6	"5764131".URPN.	USPAT	OR	OFF	2003/09/02 15:25
S17 2	8	("D248759"   "D348463"   "4633232"   "5105189"   "5429301"   "5739748"   "5764131"   "5915558").PN.	USPAT	OR	OFF	2003/09/02 15:25
S17 3	6	D348463.URPN.	USPAT	OR	OFF	2003/09/02 15:26
S17 4	26	D248759.URPN.	USPAT	OR	OFF	2003/09/02 15:27
S17 5	15	"5429301".URPN.	USPAT	OR	OFF	2003/09/02 15:27
S17 6	28	"4633232".URPN.	USPAT	OR	OFF	2003/09/02 15:28
S17 7	150	(beeper) near4 (buzz\$3)	USPAT; EPO; JPO	OR	OFF	2003/09/02 15:30

## EAST Search History

S17 8	440	pager near4 battery	USPAT; EPO; JPO	OR	OFF	2003/09/02 16:58
S17 9	2	"5987337".URPN.	USPAT	OR	OFF	2003/09/02 15:39
S18 0	263	(455/572).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2003/09/02 16:16
S18 1	2	"5987337".URPN.	USPAT	OR	OFF	2003/09/02 16:14
S18 2	704	radio adj pag\$2	USPAT; EPO; JPO	OR	OFF	2003/09/02 16:19
S18 3	49	(radio adj pag\$2) same speaker	USPAT; EPO; JPO	OR	OFF	2003/09/02 16:21
S18 4	227	(beeper) same speaker	USPAT; EPO; JPO	OR	OFF	2003/09/02 16:22
S18 5	332	coin adj2 type near2 (battery)	USPAT; EPO; JPO	OR	OFF	2003/09/02 16:26
S18 6	4	"5809411".URPN.	USPAT	OR	OFF	2003/09/02 16:35
S18 7	35	pager near4 transdu\$3	USPAT; EPO; JPO	OR	OFF	2004/11/01 16:29
S18 8	15	"3748583".URPN.	USPAT	OR	OFF	2003/09/02 17:01
S18 9	133	pager near4 speaker	USPAT; EPO; JPO	OR	OFF	2003/09/02 17:23
S19 0	3	pager near4 (sound adj2 generat\$2)	USPAT; EPO; JPO	OR	OFF	2003/09/02 17:25
S19 1	0	"5905437".URPN.	USPAT	OR	OFF	2003/09/02 17:25
S19 2	0	"5905437".URPN.	USPAT	OR	OFF	2003/09/02 17:25
S19 3	14	pager near4 (acoustic)	USPAT; EPO; JPO	OR	OFF	2003/09/02 17:25
S19 4	128	buzzer same (battery) same outside	USPAT; EPO; JPO	OR	OFF	2004/11/16 16:10
S19 5	56	buzzer and (battery) near3 outside	USPAT; EPO; JPO	OR	OFF	2004/06/02 10:11
S19 6	14	(battery) near2 mount\$2 near3 outside and (buzzer or alarm)	USPAT; EPO; JPO	OR	OFF	2004/06/02 10:14

## EAST Search History

S19 7	19	("3846773"   "4195286"   "4228428"   "4313110"   "4388617"   "4567477"   "4600314"   "4814748"   "4827244"   "4881063"   "4959640"   "4975688"   "5053752"   "5055830"   "5093651"   "5105371"   "5107446"   "5191855"   "5289165").PN.	USPAT	OR	OFF	2004/06/02 10:13
S19 8	8	(battery) near2 mount\$2 near3 outside and (alarm)	USPAT; EPO; JPO	OR	OFF	2004/06/02 10:15
S19 9	68	(battery) near2 mount\$2 near3 outside	USPAT; EPO; JPO	OR	OFF	2004/06/02 13:13
S20 0	164	(battery) near2 outside near2 case	USPAT; EPO; JPO	OR	OFF	2004/06/02 10:18
S20 1	32	(battery) adj3 outside adj2 case	USPAT; EPO; JPO	OR	OFF	2004/06/02 13:13
S20 2	3	"4296488".URPN.	USPAT	OR	OFF	2004/06/02 10:24
S20 3	38	(340/384.73,393.2).cccls. and battery	USPAT; EPO; JPO	OR	OFF	2004/11/15 16:04
S20 4	2	("6044257"   "6239700").PN.	USPAT	OR	OFF	2004/06/02 11:35
S20 5	561	(mobile adj2 phone) same battery	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:36
S20 6	3	(mobile adj2 phone) same battery near3 outside	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:37
S20 7	44	(mobile adj2 phone) same battery and recess	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:38
S20 8	40	(mobile adj2 phone) same battery and alarm	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:38
S20 9	28	(battery) adj2 mount\$2 adj2 outside	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:41
S21 0	230	(solar adj2 battery) and sound	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:42
S21 1	207	(solar adj2 battery) and alarm	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:43
S21 2	70	(solar adj2 battery) and buzzer	USPAT; EPO; JPO	OR	OFF	2004/06/02 11:43
S21 3	2	"3932868".URPN.	USPAT	OR	OFF	2004/06/02 11:54
S21 4	1	("5844484").PN.	USPAT; USOCR; EPO; JPO	OR	OFF	2004/06/02 12:14

## EAST Search History

S21 5	2	("D401881"   "D405022").PN.	USPAT	OR	OFF	2004/06/02 12:51
S21 6	4	("D350705"   "D378746"   "2984832"   "3251056").PN.	USPAT	OR	OFF	2004/06/02 12:52
S21 7	0	combin\$3 near2 buzzer near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/02 12:55
S21 8	1	integrat\$4 near2 buzzer near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/02 12:55
S21 9	3	integrat\$4 near2 alarm near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/02 12:56
S22 0	8	integrat\$4 near3 (sound) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/02 12:58
S22 1	187	buzzer same (battery near2 includ\$3)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/02 12:59
S22 2	139	buzzer same (battery near2 includ\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/02 12:59
S22 3	5	piezoelectric near3 battery near3 case	USPAT; EPO; JPO	OR	OFF	2004/06/04 10:50
S22 4	8	buzz\$2 near2 (battery) near4 case	USPAT; EPO; JPO	OR	OFF	2004/06/04 10:58
S22 5	11	"3638418".URPN.	USPAT	OR	OFF	2004/06/04 10:56
S22 6	7	("0565761"   "1019193"   "1128751"   "1529852"   "1630207"   "2709331"   "3233401").PN.	USPAT	OR	OFF	2004/06/04 10:57
S22 7	103	buzz\$2 same (battery) near4 case	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:10
S22 8	10	("3253271"   "3755803"   "3995900"   "4000543"   "4274088"   "4987754"   "4992776"   "5191314"   "5610587"   "5656998").PN.	USPAT	OR	OFF	2004/06/04 11:04
S22 9	282	(battery) near3 outside near4 case	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:10
S23 0	9	(battery near3 outside near4 case) and alarm	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:10
S23 1	6	(battery near3 outside near4 case) and buzzer	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:12

## EAST Search History

S23 2	48	(solar near2 battery same case) and alarm	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:13
S23 3	19	(solar near2 battery same case) and buzzer	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:13
S23 4	17	(solar adj2 battery same case) and buzzer	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:17
S23 5	11	(solar adj2 battery same case) and buzzer and termina\$3	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:17
S23 6	29	(battery same case same termina\$3 same electro\$3) and buzzer	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:18
S23 7	1	integrat\$5 adj2 buzzer same battery	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:22
S23 8	3	integrat\$5 adj3 buzzer same battery	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:23
S23 9	41	integrat\$5 adj3 alarm same battery	USPAT; EPO; JPO	OR	OFF	2004/06/04 11:23
S24 0	15	("D275375"   "D389077"   "4540980"   "4796015"   "4862141"   "4949077"   "5115223"   "5119072"   "5243329"   "5258746"   "5309145"   "5420570"   "5574433"   "5604483"   "5867105").PN.	USPAT	OR	OFF	2004/06/07 11:00
S24 1	6	("2158155"   "3162997"   "3878539"   "3882477"   "3943499"   "3980997").PN.	USPAT	OR	OFF	2004/06/04 11:42
S24 2	1	("5844484").PN.	USPAT; USOCR	OR	OFF	2004/06/07 12:09
S24 3	0	("batterysameelectro\$2samecontactsamemetal").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/06/07 12:15
S24 4	98	battery near3 electro\$2 near3 contact same metal	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/07 13:33
S24 5	3	buzzer near2 recess same case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/07 13:05
S24 6	0	battery near3 electro\$2 same (resilie\$4 near metal near plate)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/07 13:34
S24 7	0	battery same electro\$2 same (resilie\$4 near metal near plate)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/07 13:34

## EAST Search History

S24 8	55	battery same electro\$2 and contact and (contact near3 metal near plate)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/07 13:38
S24 9	70	battery same electrode same (contact same metal near plate)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/07 14:49
S25 0	11	contact near2 plate near3 hol\$3 near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/07 15:27
S25 1	27	("4251604"   "4419016"   "4551028"   "4939705"   "5016230"   "5058086"   "5253228"   "5279422"   "5313439"   "5358117"   "5554967"   "5625334"   "5720392"   "5751661"   "5802015"   "5815586"   "5846089"   "5953288"   "6084504"   "6194995"   "6198383"   "6229431"   "6317390"   "6324123"   "6335692"   "6335907"   "6424599").PN.	USPAT	OR	OFF	2004/06/07 14:50
S25 2	17	("4223801"   "4367955"   "4382688"   "4419016"   "4528933"   "4562933"   "4660991"   "4731765"   "4768176"   "4847597"   "4939705"   "5170380"   "5233571"   "5313439"   "5577335"   "5662224"   "5751661").PN.	USPAT	OR	OFF	2004/06/07 14:51
S25 3	27	("4251604"   "4419016"   "4551028"   "4939705"   "5016230"   "5058086"   "5253228"   "5279422"   "5313439"   "5358117"   "5554967"   "5625334"   "5720392"   "5751661"   "5802015"   "5815586"   "5846089"   "5953288"   "6084504"   "6194995"   "6198383"   "6229431"   "6317390"   "6324123"   "6335692"   "6335907"   "6424599").PN.	USPAT	OR	OFF	2004/06/07 14:53

## EAST Search History

S25 4	27	("4251604"   "4419016"   "4551028"   "4939705"   "5016230"   "5058086"   "5253228"   "5279422"   "5313439"   "5358117"   "5554967"   "5625334"   "5720392"   "5751661"   "5802015"   "5815586"   "5846089"   "5953288"   "6084504"   "6194995"   "6198383"   "6229431"   "6317390"   "6324123"   "6335692"   "6335907"   "6424599").PN.	USPAT	OR	OFF	2004/06/07 14:54
S25 5	27	("4251604"   "4419016"   "4551028"   "4939705"   "5016230"   "5058086"   "5253228"   "5279422"   "5313439"   "5358117"   "5554967"   "5625334"   "5720392"   "5751661"   "5802015"   "5815586"   "5846089"   "5953288"   "6084504"   "6194995"   "6198383"   "6229431"   "6317390"   "6324123"   "6335692"   "6335907"   "6424599").PN.	USPAT	OR	OFF	2004/06/07 15:01
S25 6	27	("4251604"   "4419016"   "4551028"   "4939705"   "5016230"   "5058086"   "5253228"   "5279422"   "5313439"   "5358117"   "5554967"   "5625334"   "5720392"   "5751661"   "5802015"   "5815586"   "5846089"   "5953288"   "6084504"   "6194995"   "6198383"   "6229431"   "6317390"   "6324123"   "6335692"   "6335907"   "6424599").PN.	USPAT	OR	OFF	2004/06/07 15:19
S25 7	17	("4223801"   "4367955"   "4382688"   "4419016"   "4528933"   "4562933"   "4660991"   "4731765"   "4768176"   "4847597"   "4939705"   "5170380"   "5233571"   "5313439"   "5577335"   "5662224"   "5751661").PN.	USPAT	OR	OFF	2004/06/07 15:21



## EAST Search History

S25 8	23	contact near3 plate near4 hol\$3 near3 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/06/07 15:27
S25 9	2	((("5844484") or ("3858389")).PN.	USPAT; USOCR	OR	OFF	2004/11/01 15:32
S26 0	0	buzz\$2 same (battery adj2 mount\$2 adj3 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:43
S26 1	0	buzzer same (battery adj2 mount\$2 adj3 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:43
S26 2	0	buzzer same (battery adj2 on adj3 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:43
S26 3	0	buzzer and (battery adj2 on adj3 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:43
S26 4	171	battery adj2 mount\$2 adj3 case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:44
S26 5	10	(battery adj2 mount\$2 adj3 case) and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:47
S26 6	1	battery adj2 mount\$2 near3 outside near2 case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:48
S26 7	212	battery near2 outside near2 case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:48
S26 8	2	(battery near2 outside near2 case) same expose	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:49
S26 9	4	("D410210"   "D429473"   "D430813"   "6265965").PN.	USPAT	OR	OFF	2004/11/01 15:51
S27 0	185	"citizen".AS. and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:57
S27 1	23	"citizen electronics".AS. and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:56
S27 3	302	watanabe.in. and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 15:58
S27 4	472	(340/384.1,384.4).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2004/11/01 16:05

## EAST Search History

S27 5	2	(340/384.1,384.4).ccls. and (alarm or buzzer) near3 outside	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/02 15:14
S27 6	11	("381"/\$).ccls. and (alarm or buzzer) near3 outside	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 16:11
S27 7	16	("381"/\$).ccls. and (battery) near3 outside	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 16:13
S27 8	21	("381"/\$).ccls. and (battery) near3 expos\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 16:16
S27 9	2	"4569077".URPN.	USPAT	OR	OFF	2004/11/01 16:15
S28 0	68	("340"/\$).ccls. and (battery) near3 expos\$2	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 16:17
S28 1	638	pager near4 (transducer or buzzer or alarm or sound)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 16:35
S28 2	53	pager near4 (transducer or buzzer or alarm or sound) same case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/02 12:03
S28 3	37	pager same (battery near3 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 14:42
S28 4	6	beeper same (battery near3 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 16:44
S28 5	0	(battery adj2 mount\$2) near3 on near2 cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/01 16:47
S28 6	85	battery near2 expos\$2 near2 outside	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/02 11:40
S28 7	10	(battery near2 expos\$2 near2 outside) and (speaker or sound or transducer)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/02 11:46
S28 8	28	(battery near2 expos\$2 near2 outside) and (portable or pager or phone)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/11/02 11:46
S28 9	14	"5539819".URPN.	USPAT	OR	OFF	2004/11/02 11:53
S29 0	3	RE36828.URPN.	USPAT	OR	OFF	2004/11/02 12:00

## EAST Search History

S29 1	5	("5287084"   "5416751"   "RE36828"   "6389148"   "6529115").PN.	USPAT	OR	OFF	2004/11/02 12:00
S29 2	288	(pager or phone) and (buzzer same battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/02 13:00
S29 3	64	(pager or phone) same (buzzer same battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/02 13:06
S29 4	443	buzzer same battery same case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/02 13:07
S29 5	92	buzzer same battery near3 case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/02 13:07
S29 6	10	("3253271"   "3755803"   "3995900"   "4000543"   "4274088"   "4987754"   "4992776"   "5191314"   "5610587"   "5656998").PN.	USPAT	OR	OFF	2004/11/02 13:30
S30 6	1210	(buzzer or sound or alarm) same battery same terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 12:04
S30 7	53	(buzzer or sound or alarm) same outside same battery same terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 12:15
S30 8	0	(buzzer or sound or alarm) same (battery adj2 outside adj2 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 12:16
S30 9	3	(buzzer or sound or alarm) and (battery adj2 outside adj2 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 12:16
S31 0	32	(battery adj2 outside adj2 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 12:18
S31 1	0	(battery adj2 mount\$2 adj2 outside adj2 case)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 12:18
S31 2	35	(battery adj2 mount\$2 adj2 outside)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 14:18
S31 3	3	((("5319716") or ("5832438") or ("4845751")).PN.	USPAT	OR	OFF	2004/11/15 14:19
S31 4	2076	(pager or beeper) same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:34

## EAST Search History

S31 5	9	(pager or beeper) same (battery near3 outside)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 14:44
S31 6	73	(pager or beeper) same (battery) same outside	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:20
S31 7	2	(pager or beeper) same (battery near3 exposed)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:26
S31 8	1	(buzzer) same (battery near3 exposed)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:27
S31 9	14	(alarm) same (battery near3 exposed)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:29
S32 0	1673	(battery near3 exposed)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:29
S32 1	134	(battery near3 exposed near2 outside)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:29
S32 2	79961	(mobile or portable or cell\$5) same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:34
S32 3	1643	(mobile or portable or cell\$5) same (battery) same (sound or buzzer)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:39
S32 4	4	(mobile or portable or cell\$5) same (battery near4 expos\$3) same (sound or buzzer)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:36
S32 5	0	(mobile or portable or cell\$5) same (solar near3 battry)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:36
S32 6	0	(mobile or portable or cell\$5) same (solar same battry)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:36
S32 7	3766	(mobile or portable or cell\$5) same (solar near3 battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 09:38
S32 8	1982	(mobile or portable or cell\$5) same (solar adj2 battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:36
S32 9	1988	(mobile or portable or cell\$5 or pager or beeper) same (solar adj2 battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 14:45

## EAST Search History

S33 0	401	(phone or pager or beeper) same (battery) same (sound)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 15:40
S33 1	1985	("381"/\$).ccls. and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 16:05
S33 2	396	("381"/\$).ccls. and battery same cas\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/10 14:26
S33 3	3	("4574272"   "4973941"   "5606304").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/15 16:08
S33 4	4	("D254729"   "D297519"   "D401590"   "D410211").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/15 16:09
S33 5	1088	(340/384.1,384.3,384.7,390.1, 391.1).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 16:13
S33 6	252	(340/384.1,384.3,384.7,390.1, 391.1,392.1,392.2).ccls. and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/15 16:26
S33 7	13	("4183017").URPN.	USPAT	OR	OFF	2004/11/15 16:25
S33 8	4	("5528697"   "5953437"   "5960096"   "5974157").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/16 14:46
S33 9	0	(transducer or buzzer or alarm) adj3 case same (battery adj2 exposed)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 15:04
S34 0	251	(transducer or buzzer or alarm) adj3 cas\$3 same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 14:47
S34 1	308	(transducer or buzzer or alarm) adj3 (cas\$3 or enclosure) same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 14:48
S34 2	0	("381"/\$).ccls. and battery near2 outside near2 (cas\$3 or enclosure)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 14:56
S34 3	0	("381"/\$).ccls. and battery near2 outside near2 (cas\$3 or enclosure)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 14:56
S34 4	9	("381"/\$).ccls. and battery near2 outside	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 15:03
S34 5	8	("381"/\$).ccls. and battery near2 exposed	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 15:04

## EAST Search History

S34 6	5186	(transducer same battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 15:04
S34 7	82	transducer near2 (cas\$3 or enclosure) same battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 15:09
S34 9	17526	pager or (mobile adj2 phone) same battery same terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 15:12
S35 0	58	pager same battery same terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 15:12
S35 1	164	(pager or beeper) same sound same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/16 16:11
S35 2	3647	(mobile or portable or cell\$5) adj3 phone same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 10:20
S35 3	2372	(cell\$5) adj3 phone same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 09:43
S35 4	1267	(mobile) adj3 phone same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 09:43
S35 5	318	(mobile or portable or cell\$5) adj3 phone same (battery) same (speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 10:29
S35 6	2583	(mobile or portable or cell\$5) adj3 phone same (speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 10:29
S35 7	1037	(mobile or portable or cell\$5) adj3 phone same (speaker) and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 10:47
S35 8	106	(mobile or portable or cell\$5) adj3 phone same (buzzer)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:14
S35 9	3	("5788516"   "5923750"   "6017225").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/17 10:51
S36 0	5	("5287084"   "5416751"   "6389148"   "6529115"   "RE36828").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/17 10:53
S36 1	43	(340/388.1,396.1,391.1,384.74). ccls. and (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 10:58

## EAST Search History

S36 2	22	(mobile or portable or cell\$5) adj3 phone same (disc or button) near3 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:18
S36 3	1	(mobile or portable or cell\$5) adj3 phone same (disc) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:19
S36 4	0	(mobile or portable or cell\$5) adj3 phone and (disc adj2 type) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:19
S36 5	34	(mobile or portable or cell\$5) adj3 phone and (button adj2 type) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:20
S36 6	3	phone same (button adj2 type) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:21
S36 7	0	phone same (disc adj2 type) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:21
S36 8	33	(disc adj2 type) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:43
S36 9	0	pager same (disc adj2 type) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:22
S37 0	1	pager same (button adj2 type) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:25
S37 1	21	phone same (button adj3 battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:27
S37 2	28	phone same (battery near2 shap\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:32
S37 3	2	phone same (round or circular) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:40
S37 4	286	phone same (circ\$4) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:37
S37 5	0	phone same (circular) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:40
S37 6	12	phone and (circular) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:42

## EAST Search History

S37 7	12	pager and (circular) near2 battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:42
S37 8	0	(disc adj2 type) near2 battery and pager	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:43
S37 9	0	(disc adj2 type) near2 battery and beeper	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:43
S38 0	6	(button adj2 type) near2 battery and beeper	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 11:44
S38 1	7	(button adj2 type) near2 battery and pager	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 16:17
S38 2	150960	battery adj2 terminals near4 (pcb) or (printed adj2-circuit)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/11/17 16:28
S38 3	19	(buzzer or (sound adj2 generator) or alarm) same (recess or opening) same detach\$4 same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 09:32
S38 4	14	(buzzer or (sound adj2 generator) or alarm) same (circul\$2 adj2 (recess or opening)) same (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 09:33
S38 5	35	(buzzer or (sound adj2 generator) or alarm) same (circul\$2 adj2 (recess or opening)) and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 09:37
S38 6	12	(buzzer or (sound adj2 generator) or alarm) with (circul\$2 adj2 (recess or opening)) and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 09:40
S38 7	25	(buzzer or (sound adj2 generator) or alarm) with (circul\$2 adj2 (recess or opening))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 09:49
S38 8	135	(buzzer or (sound adj2 generator) or alarm or speaker) with (circul\$2 adj2 (recess or opening))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 09:49
S38 9	23	(buzzer or (sound adj2 generator) or alarm or speaker) with (circul\$2 adj2 (recess or opening)) and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 09:57
S39 0	1	(battery with (circul\$2 adj2 (recess or opening))) same (buzzer or (sound adj2 generator) or alarm or speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 09:58



## EAST Search History

S39 1	13	(battery with (circul\$2 adj2 (recess or opening))) and (buzzer or (sound adj2 generator) or alarm or speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 10:06
S39 2	1	(battery with (circul\$2 adj2 (recess or opening))) with (buzzer or (sound adj2 generator) or alarm or speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 10:06
S39 3	5	(battery with (circul\$2 with (recess or opening))) with (buzzer or (sound adj2 generator) or alarm or speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 10:07
S39 4	0	((disc adj2 battery) with (recess or opening)) with (buzzer or (sound adj2 generator) or alarm or speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 10:08
S39 5	3	(disc adj2 battery) with (buzzer or (sound adj2 generator) or alarm or speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/10 10:08
S39 6	1	buzz\$2 near2 (porta\$3 adj2 device)	US-PGPUB	OR	OFF	2005/06/13 11:37
S39 7	330	watanabe.in. and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 11:38
S39 8	79	watanabe.in. and buzzer and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 11:38
S39 9	128	(sound adj2 generator) same (case or housing) same battery	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 12:02
S40 0	6671	((sound adj2 generator) or buzzer or alarm) same (case or housing) same battery	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 12:03
S40 1	6585	(buzzer or alarm) same (case or housing) same battery	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 12:03
S40 3	39	(buzzer or alarm) same (case or housing) same battery same electrodes same terminals	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 12:05
S40 4	6	(buzzer or alarm) same (battery with project\$3 with recess)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 12:07

## EAST Search History

S40 5	0	(sound adj2 generator) same (battery with project\$3 with recess)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 12:07
S40 6	194	(buzzer or alarm) same (case or housing) same battery same electrodes	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 14:40
S40 7	80	((mobile or cell\$5) adj2 phone) or pager or beeper) same (battery) same recess	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 14:46
S40 8	0	((mobile or cell\$5) adj2 phone) or pager or beeper) same (battery) same recess same ((sound adj2 generator) or alarm or buzzer)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 14:47
S40 9	456	((mobile or cell\$5) adj2 phone) or pager or beeper) same (battery) same ((sound adj2 generator) or alarm or buzzer)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 14:47
S41 0	3	((mobile or cell\$5) adj2 phone) or pager or beeper) same (battery) same ((sound adj2 generator) or alarm or buzzer) same electrode	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 14:47
S41 1	4	((mobile or cell\$5) adj2 phone) or pager or beeper) same (battery) same ((sound adj2 generator) or alarm or buzzer) same electrodes	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 14:48
S41 2	98	((mobile or cell\$5) adj2 phone) or pager or beeper) same (battery) same ((sound adj2 generator) or alarm or buzzer) same (case or housing)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/13 14:48
S41 3	5	((button or disc) adj3 battery) same (contact adj2 plates)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 17:42
S41 4	16	((button or disc) adj3 battery) same (contact) same terminals same metal	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/13 17:42
S41 5	3	((("5537472") or ("6208238") or ("5844484"))).PN.	USPAT	OR	OFF	2005/10/10 14:14
S41 6	44	("381"/\$).ccls. and (buzzer or alarm) with battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/10 14:23
S41 7	156	("455"/\$).ccls. and battery same (buzzer or alarm) same (case or casing or housing)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/10 14:26

## EAST Search History

S41 8	498	(381/409,410).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:08
S42 0	2	381/409,410.ccls. and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 11:34
S42 1	6153	"379"/\$.ccls. and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:09
S42 2	1	"379"/\$.ccls. and battery with recess with case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:12
S42 3	47	"379"/\$.ccls. and battery with recess	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:13
S42 4	280	429/96-100.ccls. and battery with recess	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:10
S42 5	41	429/96-100.ccls. and battery with recess with case	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:19
S42 6	3	battery with recess with case with (buzzer or alarm or bell or sound)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:19
S42 8	10	381/409,410.ccls. and (buzzer or alarm)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:26
S42 9	2	"american audio components".AS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 11:26
S43 0	5	("5287084"   "5416751"   "6389148"   "6529115"   "RE36828").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 11:29
S43 1	198	(self adj2 contained) with (buzzer or alarm or sound) with battery	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 11:30
S43 2	153	watanabe.in. and buzzer	USPAT	OR	OFF	2005/10/11 15:01
S43 3	339	watanabe.in. and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 15:01
S43 4	5	("D254731"   "D408822"   "D410210"   "D415975"   "D419904").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:03
S43 5	4	("D339544"   "D350705"   "D371312"   "D389421").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:05

## EAST Search History

S43 6	15	("2984832"   "3251056"   "4075626"   "4115770"   "4303908"   "4366472"   "D201593"   "D258577"   "D264196"   "D285667"   "D337993"   "D339544").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:05
S43 7	14	("D258577").URPN.	USPAT	OR	OFF	2005/10/11 15:06
S43 8	5	("D408822").URPN.	USPAT	OR	OFF	2005/10/11 15:09
S43 9	2	("D430813").URPN.	USPAT	OR	OFF	2005/10/11 15:09
S44 0	4	("6265965"   "D410210"   "D429473"   "D430813").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:10
S44 1	7	("6265965").URPN.	USPAT	OR	OFF	2005/10/11 15:10
S44 2	5	("4315112"   "4376233"   "5394479"   "6208238"   "6265965").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:11
S44 3	8	("5107155"   "5353017"   "5619181"   "5668423"   "5861686"   "5894263"   "5971775"   "5986367").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:13
S44 4	2	S443 and battery	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:17
S44 5	0	S442 and S441 and battery	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:17
S44 6	2	S441 and battery	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:21
S44 7	100	(340/7.61,7.63).ccls. and (battery)	USPAT; EPO; JPO	OR	OFF	2005/10/11 15:23
S44 8	103	(340/7.61,7.63).ccls. and (battery)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/10/11 15:23
S44 9	4	("5392455").URPN.	USPAT	OR	OFF	2005/10/11 15:27
S45 0	3	("4768031"   "5077829"   "5257413").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:36
S45 1	1	benoist.in. and (buzzer or transducer or alarm) same battery	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:36

## EAST Search History

S45 2	139	"motorola".AS. and (buzzer or transducer or alarm) same battery	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:36
S45 3	53	"motorola".AS. and (buzzer or transducer or alarm) with battery	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:36
S45 4	4	("5392455").URPN.	USPAT	OR	OFF	2005/10/11 15:38
S45 5	4	("4115770"   "5392455"   "D333468"   "D377353").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:39
S45 6	0	("D409202").URPN.	USPAT	OR	OFF	2005/10/11 15:40
S45 7	0	("D409202").URPN.	USPAT	OR	OFF	2005/10/11 15:40
S45 8	60	(D14/222).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 13:54
S45 9	4	("5133428"   "D302430"   "D349499"   "D387354").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:41
S46 0	1	S458 and battery	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/11 15:41
S46 1	0	("D440222").URPN.	USPAT	OR	OFF	2006/03/22 11:28
S46 2	6	("5467323"   "5748566"   "5830007"   "5854846"   "D387768"   "D401588").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 11:29
S46 3	14	("5467323").URPN.	USPAT	OR	OFF	2006/03/22 11:33
S46 4	0	381/409,410,396.ccls. and battery and recess and terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/10/24 17:07
S46 5	48	"381"/\$.ccls. and (buzzer or alarm or transducer or speaker) and battery and recess and terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/28 16:12
S46 6	10	"381"/\$.ccls. and (buzzer or alarm or transducer or speaker) and (battery near2 recess)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 11:39
S46 7	26	(buzzer or alarm or transducer or speaker) same (battery near2 recess)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 11:39
S46 8	5	("D254731"   "D408822"   "D410210"   "D415975"   "D419904").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 13:32

## EAST Search History

S46 9	4	("D373546"   "D378746"   "D389765"   "D401179").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 13:33
S47 0	5	("D254731").URPN.	USPAT	OR	OFF	2006/03/22 13:34
S47 1	9	("D297519").URPN.	USPAT	OR	OFF	2006/03/22 13:40
S47 2	1	("5392455").PN.	USPAT	OR	OFF	2006/03/22 13:40
S47 3	4	("5392455").URPN.	USPAT	OR	OFF	2006/03/22 13:40
S47 4	3	("4768031"   "5077829"   "5257413").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 13:42
S47 5	538	(D10/104).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 13:59
S47 6	998	(D10/106).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 13:59
S47 7	423	D10/106,104,116,121.ccls. and (buzzer or alarm)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 14:04
S47 8	3	("2946867").URPN.	USPAT	OR	OFF	2006/03/22 14:03
S47 9	10	D10/106,104,116,121.ccls. and (buzzer or alarm) and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 14:04
S48 0	4	("6265965"   "D410210"   "D429473"   "D430813").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 14:05
S48 1	22	"citizen electronics".AS. and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 15:33
S48 2	3624	"381"/\$.ccls. and (buzzer or alarm or transducer or speaker) and (battery near2 case or casing or housing)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 15:05
S48 3	187	"381"/\$.ccls. and (buzzer or alarm or transducer or speaker) and (battery near2 (case or casing or housing))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 15:07
S48 4	7	"381"/\$.ccls. and (buzzer or alarm or transducer or speaker) same (battery with recess)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 10:27

## EAST Search History

S48 5	30	"381"/\$.ccls. and (buzzer or alarm or transducer or speaker) and (battery with recess)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 15:07
S48 6	11	("4810997").URPN.	USPAT	OR	OFF	2006/03/22 15:11
S48 7	21	("4973941").URPN.	USPAT	OR	OFF	2006/03/22 15:12
S48 8	3	("5719549").URPN.	USPAT	OR	OFF	2006/03/22 15:15
S48 9	11	("4506117"   "4608463"   "4691363"   "4837836"   "5394479"   "5619585"   "5719549"   "5721785"   "5960096"   "6097828"   "6108432").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 15:15
S49 0	1	("6108432").URPN.	USPAT	OR	OFF	2006/03/22 15:19
S49 1	11	("2293078"   "3560667"   "3742156"   "3935398"   "4009355"   "4308431"   "4504703"   "4578808"   "4843628"   "5085628").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 15:19
S49 2	25	"citizen electronics".AS. and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/22 15:33
S49 3	2	("4944017"   "5287084").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 15:46
S49 4	3	((("5537472") or ("6208238") or ("5844484"))).PN.	USPAT	OR	OFF	2006/03/22 15:46
S49 5	0	"381"/\$.ccls. and (buzzer with coil with core with armature)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 10:28
S49 6	0	"381"/\$.ccls. and (buzzer with coil with core with magnet\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 10:28
S49 7	0	"381"/\$.ccls. and ((transducer or \$4speaker) with coil with core with magnet\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 10:29
S49 8	0	"381"/\$.ccls. and (transducer or \$4speaker or buzzer) same (coil with core with magnet\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 10:29
S49 9	184	"381"/\$.ccls. and (transducer or \$4speaker or buzzer) same (coil with core with magnet\$2)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 10:43

## EAST Search History

S50 0	10	"381"/\$.ccls. and (transducer or \$4speaker or buzzer) same (coil with core with magnet\$2) and battery and termin\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 10:30
S50 1	19	"381"/\$.ccls. and (transducer or \$4speaker or buzzer) same (coil with core with magnet\$2) and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 11:32
S50 2	1	("5668423").PN.	USPAT	OR	OFF	2006/03/23 10:43
S50 3	3	"379"/\$.ccls. and (transducer or \$4speaker or buzzer) same (coil with core with magnet\$2) and battery	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 13:45
S50 4	369	(379/443,444).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/23 13:49
S50 5	117	(buzzer or alarm or transducer or speaker) same (battery with recess)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 10:46
S50 6	24	("3577876").URPN.	USPAT	OR	OFF	2006/03/28 16:14
S50 7	12	(buzzer or alarm or transducer or speaker) same (battery with recess with top)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/28 16:43
S50 8	7	(buzzer or alarm or transducer or speaker) same (battery with recess) same (terminals or leads)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 10:55
S50 9	5	"5392455"	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 10:55
S51 0	4	("5392455").URPN.	USPAT	OR	OFF	2006/03/29 10:55
S51 1	3	("4768031"   "5077829"   "5257413").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 10:56
S51 2	1	("5668423").PN.	USPAT	OR	OFF	2006/03/29 10:58
S51 3	270	(340/7.6,7.63).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 11:04
S51 4	0	S513 and battery same recess same terminals and (alarm buzzer transducer speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 10:59
S51 5	0	S513 and battery same recess same terminals and (alarm or buzzer or transducer or speaker)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 10:59



## EAST Search History

S51 6	0	S513 and battery same recess same terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 10:59
S51 7	19	S513 and battery same terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 11:04
S51 8	368	(340/7.6,7.63,7.62).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 11:04
S51 9	20	S518 and battery same terminals	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 11:05
S52 0	5	S518 and battery same recess	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 11:05
S52 1	15	("5265265").URPN.	USPAT	OR	OFF	2006/03/29 11:13
S52 2	15	("3266042"   "3745583"   "4321699"   "4419770"   "4737941"   "5265265"   "5504940"   "5532705"   "5627548"   "5627552"   "5673054"   "5768217"   "5889738"   "5926144").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 11:19
S52 3	15	("3266042"   "3745583"   "4321699"   "4419770"   "4737941"   "5265265"   "5504940"   "5532705"   "5627548"   "5627552"   "5673054"   "5768217"   "5889738"   "5926144").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 11:27
S52 4	6	itakura.in. and watch and battery	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 11:27
S52 5	8	itakura.in. and watch and battery	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 11:28
S52 6	1	WO-9424723-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 11:29
S52 7	216	"citizen watch".AS. and battery and watch and (speaker or transducer or sound or vibrat\$4 or audio)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 12:49
S52 8	2	("4276627").URPN.	USPAT	OR	OFF	2006/03/29 12:48

## EAST Search History

S52 9	3	("3789601"   "4020627"   "4165607").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 12:48
S53 0	291	"citizen watch".AS. and battery and watch and (speaker or transducer or sound or vibrat\$4 or audio or alarm)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 12:54
S53 1	13248	(battery same (termin\$3 leads)) and (watch pager \$4phone) and (speaker or transducer or sound or vibrat\$4 or audio or alarm)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 12:57
S53 2	2969	(battery same (termin\$3 leads)) same (watch pager \$4phone) same (speaker or transducer or sound or vibrat\$4 or audio or alarm)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 14:04
S53 3	2983	watch same (alarm buzzer)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 14:05
S53 4	386	watch same (buzzer)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 14:05
S53 5	196	watch with (buzzer)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 14:10
S53 6	863	watch with (buzzer vibrat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 14:27
S53 7	15	watch with (buzzer with vibrat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 14:10
S53 8	52	watch same ((elastic\$6 resilient\$2) with contact with plate)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/29 15:29
S53 9	0	(381/188,205).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 15:30
S54 0	1	("5392455").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 15:30

## EAST Search History

S54 1	694	(381/386).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 15:31
S54 2	7	S541 and battery same termin\$3	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/29 15:32
S54 3	48	battery with (upper adj2 electrode) with (wall side)	USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/24 21:09
S54 4	42	battery with (electrode) with (wall side) with (contact near2 plate)	USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/24 21:10
S54 5	1	battery with (electrode) with (recess) with (contact near2 plate)	USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/24 21:10
S54 6	26	battery same (electrode) same (recess) same (contact near2 plate)	USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/24 21:12
S54 7	21	battery same (electrode) same (circular near3 recess)	USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/24 21:14
S54 8	64	kikuchi and battery and recess	USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/24 21:15
S54 9	17	kikuchi and battery and recess and circular	USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/24 21:15
S55 0	0	(battery with (contact near2 plates) with electrode) same (buzzer alarm (sound near2 generator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 16:19
S55 1	0	(battery with (contact near2 plates) with electrode) and (buzzer alarm (sound near2 generator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/09/12 18:34
S55 2	249	(battery with (contact contacts) with electrode) and (buzzer alarm )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/09/12 18:34
S55 3	85	(battery with (contact contacts) with electrode) same (buzzer alarm )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/09/12 18:37

## EAST Search History

S55 4	2	(battery with (contact contacts) with electrode) same ((circle circular) near3 recess)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/09/12 18:41
S55 5	3	("5634163"   "5978608"   "6243536").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/12 18:39
S55 6	108	battery with ((circle circular) near3 recess)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/09/12 18:41
S55 7	4	("D254729"   "D297519"   "D401590"   "D410211").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/24 16:16
S55 8	5	("D254729").URPN.	USPAT	OR	OFF	2006/10/24 16:17
S55 9	235	(battery near4 recess) and (buzzer alarm watch (sound near2 generator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 16:19
S56 0	83	(battery near4 recess) same (buzzer alarm watch (sound near2 generator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 16:30
S56 1	3	("2985705").URPN.	USPAT	OR	OFF	2006/10/24 16:21
S56 2	75	(battery near4 recess) same (transducer speaker buzzer alarm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 16:34
S56 3	336	(battery near4 recess) and (transducer speaker buzzer alarm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 16:35
S56 4	2	"381"/\$.ccls. and battery and recess and terminals and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/10/24 17:08
S56 5	68	"381"/\$.ccls. and battery and buzzer	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/10/24 17:08
S56 6	3	("5719549").URPN.	USPAT	OR	OFF	2006/10/24 17:14

## EAST Search History

S56 7	0	("6147595").URPN.	USPAT	OR	OFF	2006/10/24 17:16
S56 8	0	("6147595").URPN.	USPAT	OR	OFF	2006/10/24 17:16
S56 9	3	("5296839"   "5719549"   "5867090").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/24 17:16
S57 0	206	(340/388.1).CCLS.	USPAT	OR	OFF	2006/10/24 17:17
S57 1	394	(340/388.1).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 17:17
S57 2	0	S571 and (\$speaker transducer buzzer) same (battery near3 recess)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 17:18
S57 3	0	S571 and (battery near3 recess)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 17:18
S57 4	41	S571 and battery	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 17:19
S57 5	61	340/384.6.ccls. and battery	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/24 17:19
S57 6	2556	(battery near2 holder)	USPAT; EPO; JPO	OR	OFF	2006/10/26 10:26
S57 7	1870	(429/96-100).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/10/26 10:40
S57 8	2384	(429/96-100).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/26 10:44

## EAST Search History

S57 9	1	S578 and battery and ((contact near2 plates) with extend\$3 with side with (case casing housing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/26 10:44
S58 0	1	("1902448").PN.	USPAT	OR	OFF	2006/10/26 10:42
S58 1	1	("1903448").PN.	USPAT	OR	OFF	2006/10/26 10:42
S58 2	593	(429/128,123,146).CCLS.	USPAT; USOCR; EPO; JPO	OR	OFF	2006/10/26 10:44
S58 3	1	S582 and battery and ((contact near2 plates) with extend\$3 with side with (case casing housing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/26 10:45
S58 4	4	"429"\$.ccls. and battery and ((contact near2 plates) with extend\$3 with side with (case casing housing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/10/26 10:46